

FIG. 1
(PRIOR ART)

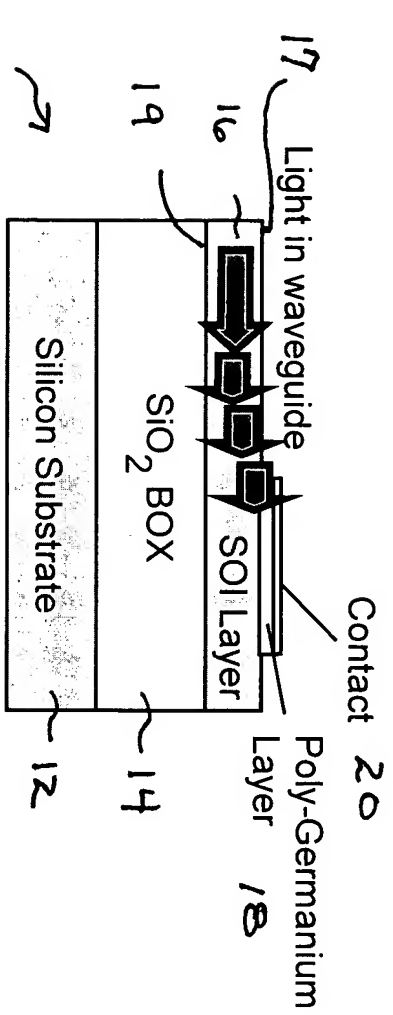


FIG. 2

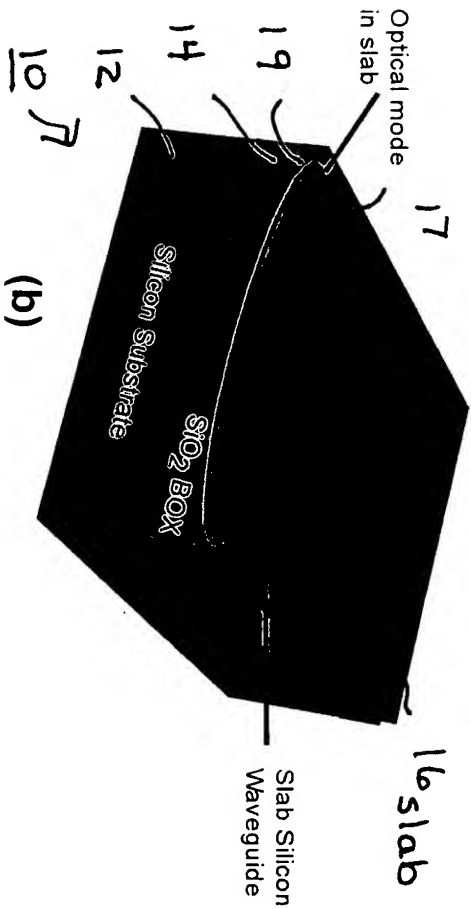
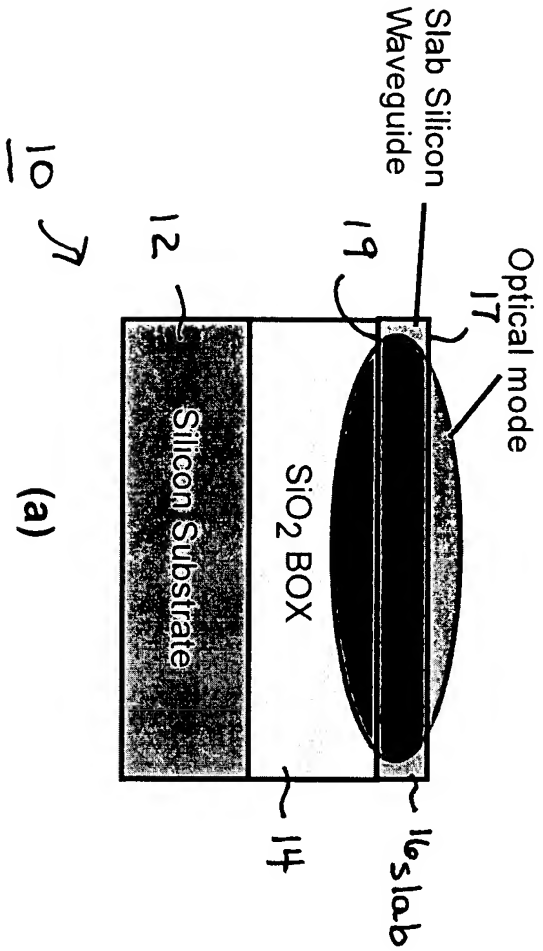
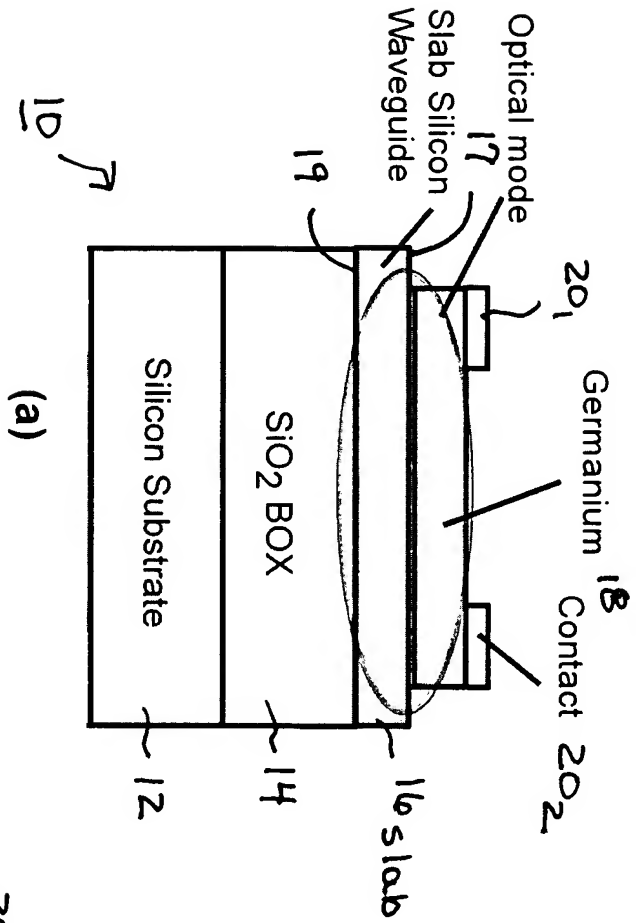
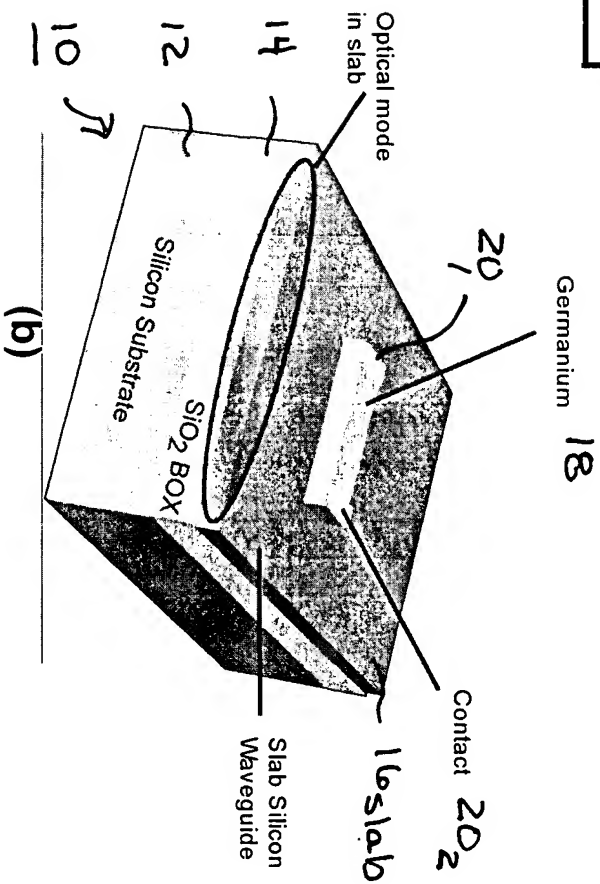


FIG. 3



(a)



(b)

FIG. 4

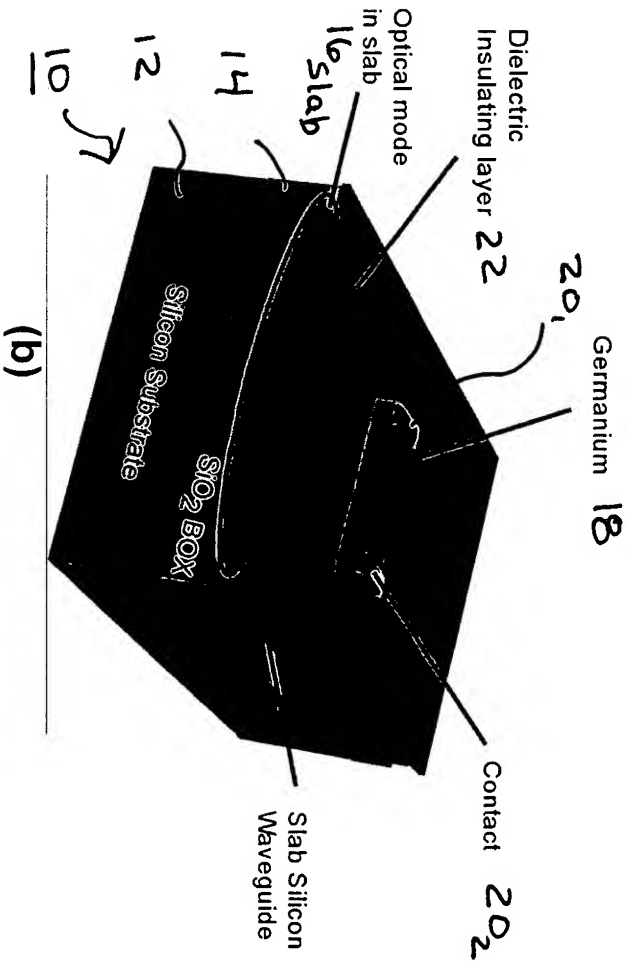
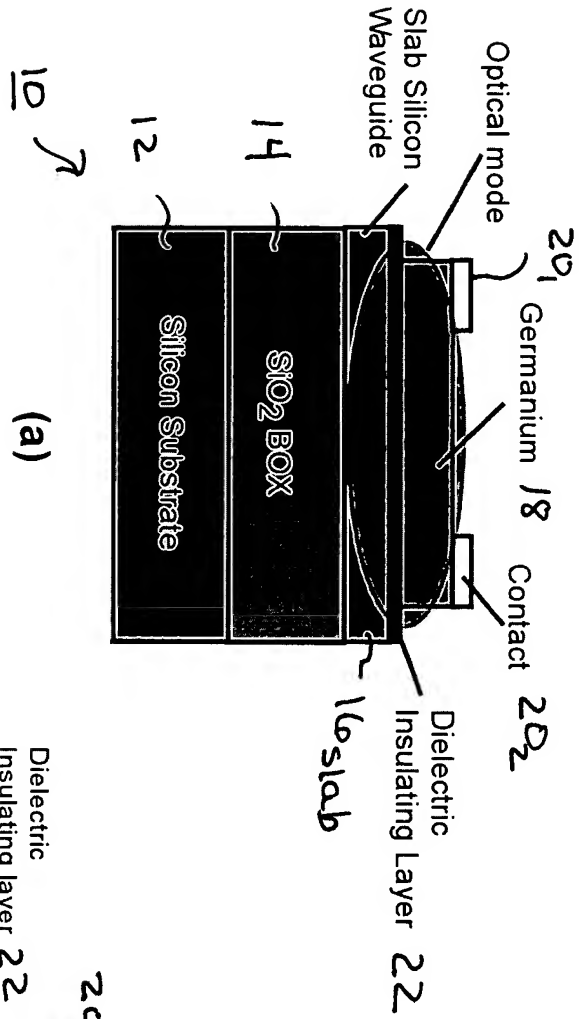


FIG. 5

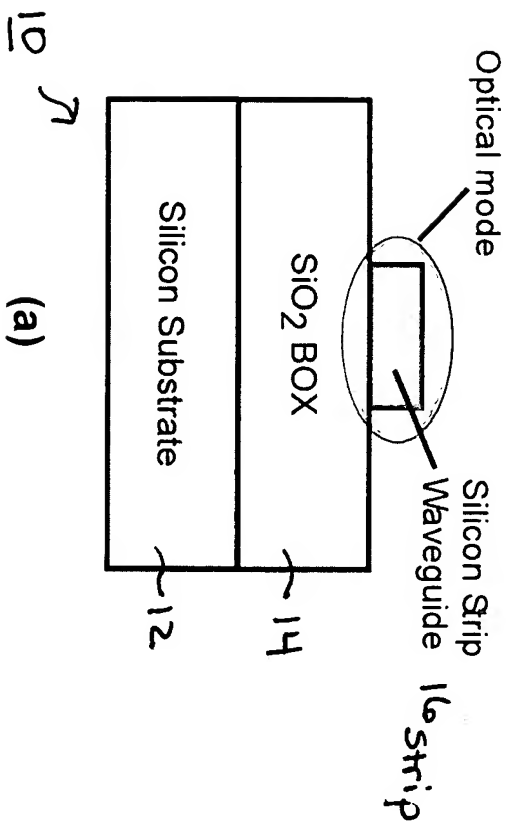
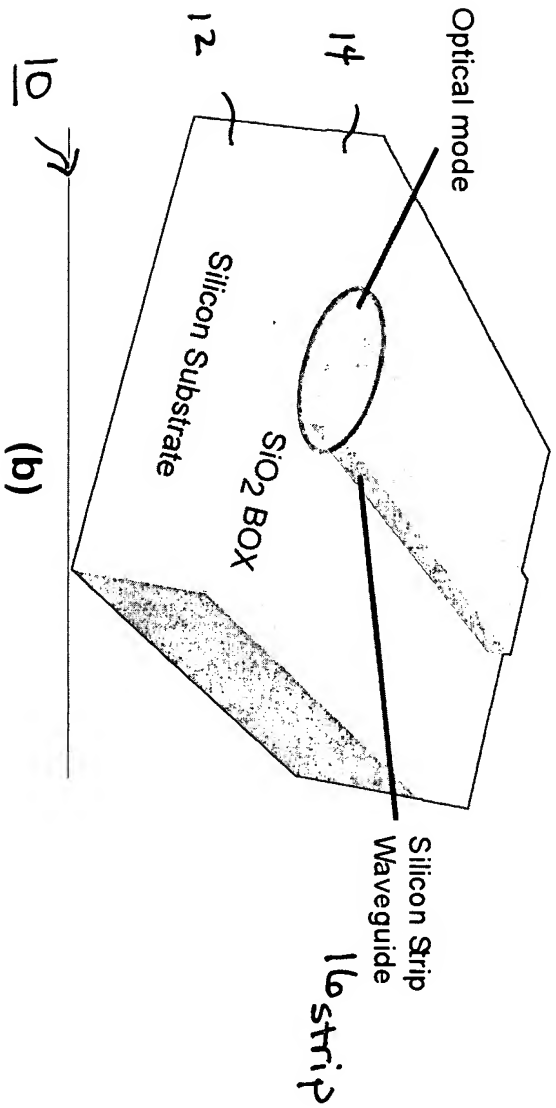
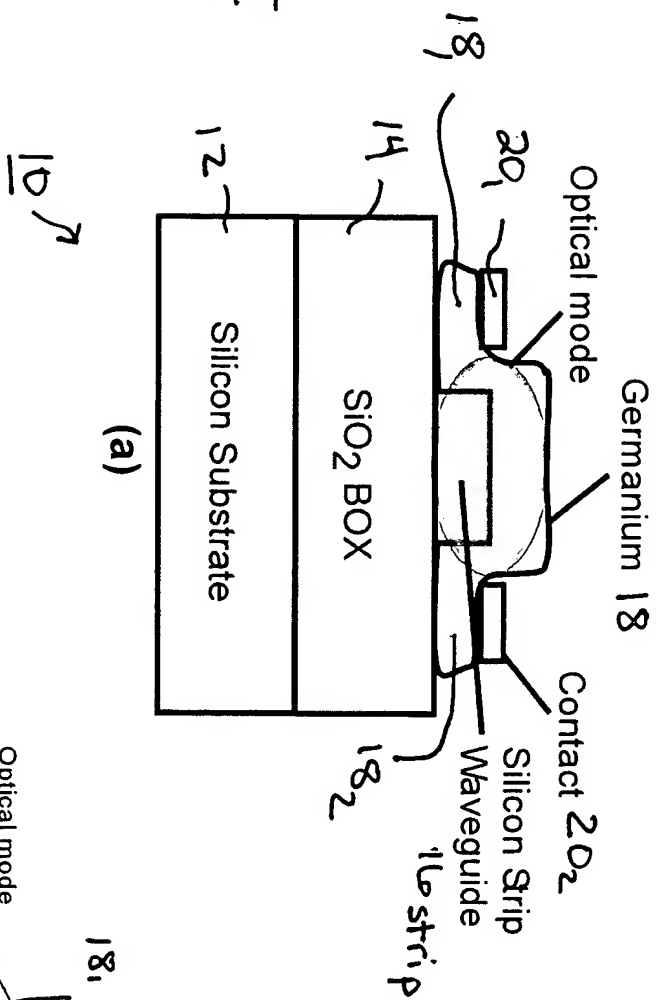
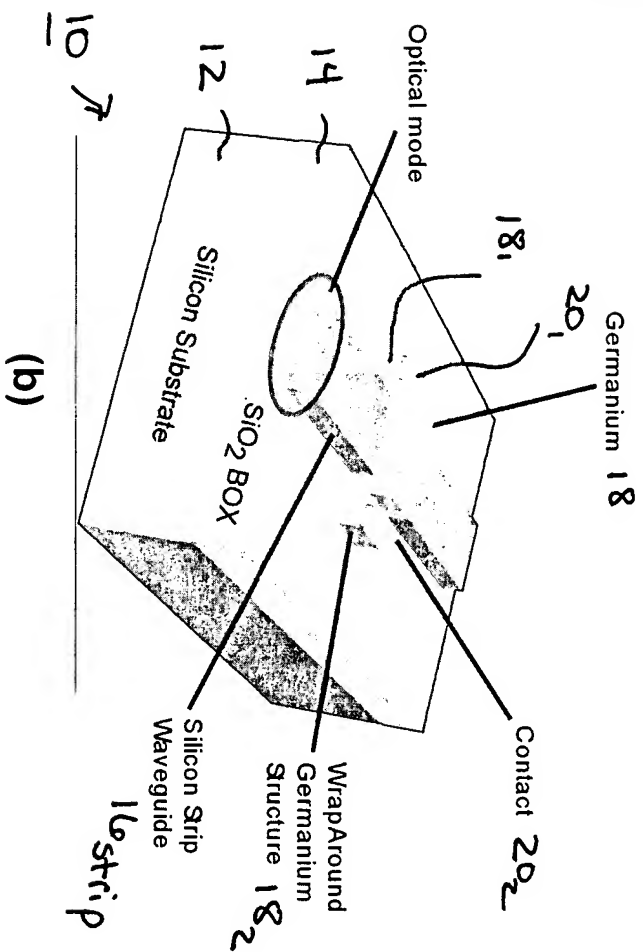


FIG. 6





(a)



(b)

FIG. 7

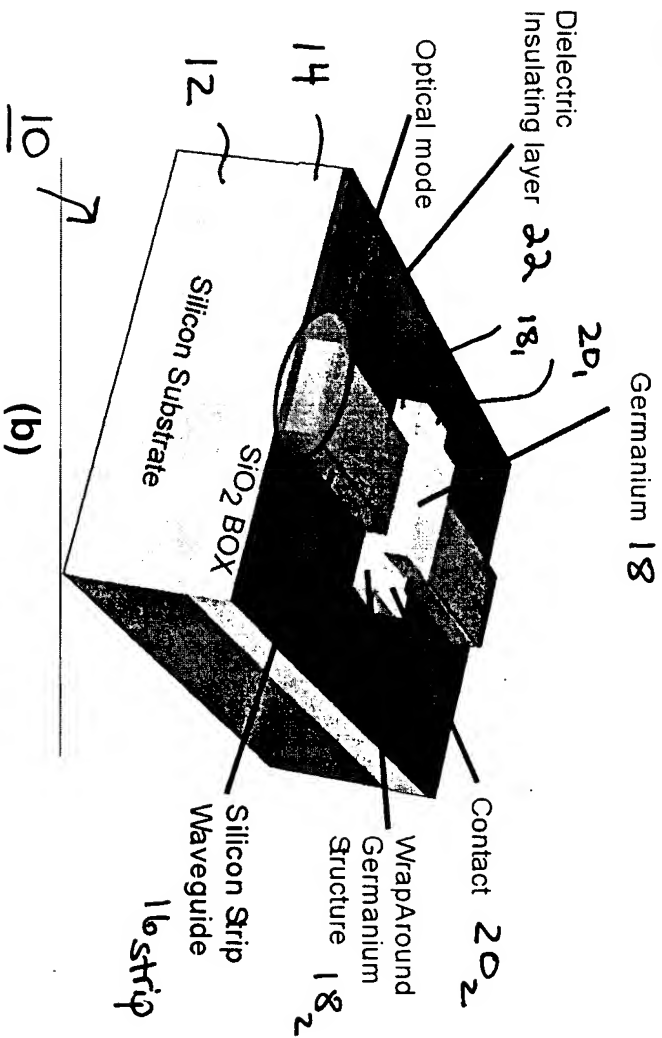
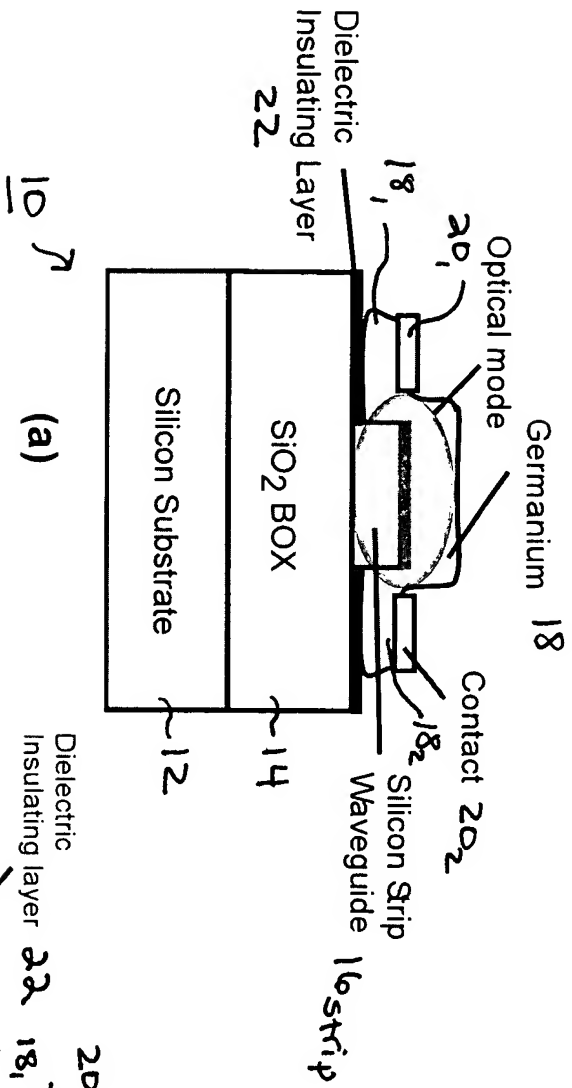


FIG. 8

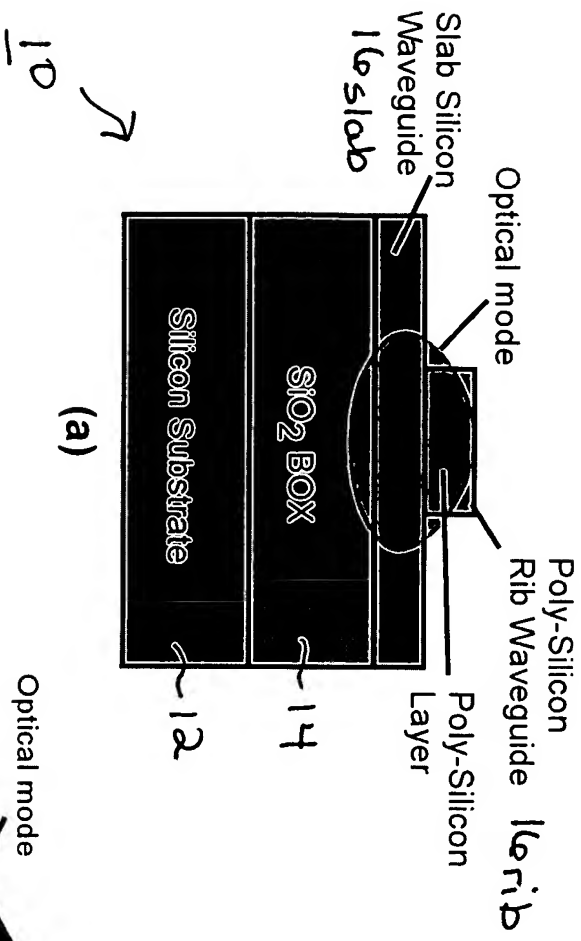
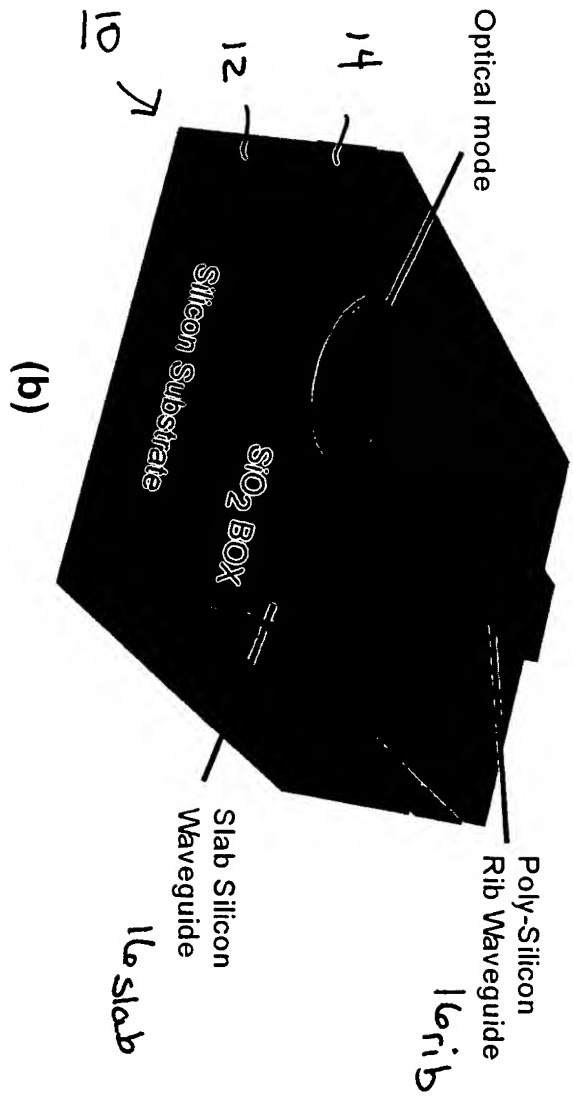
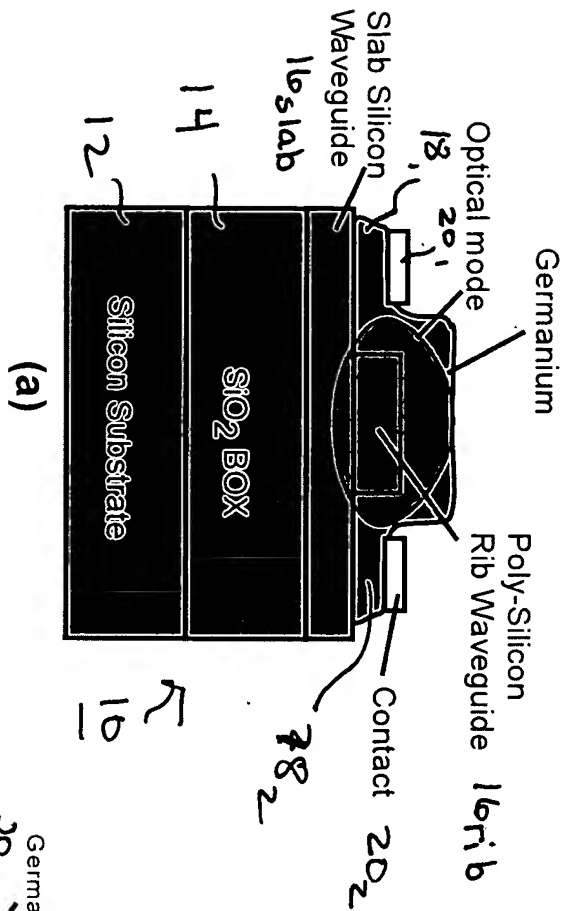
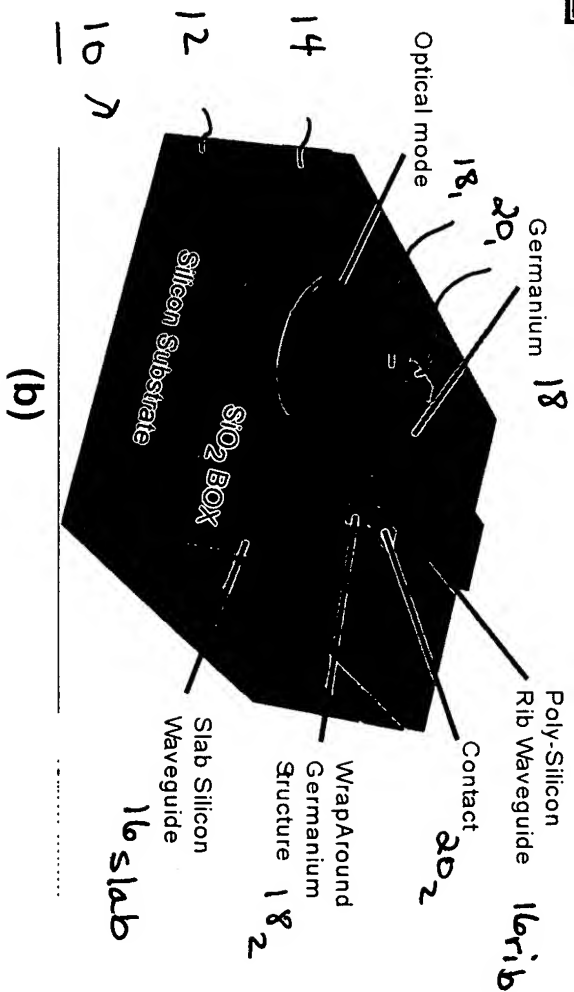


FIG. 9





(a)



(b)

FIG. 10

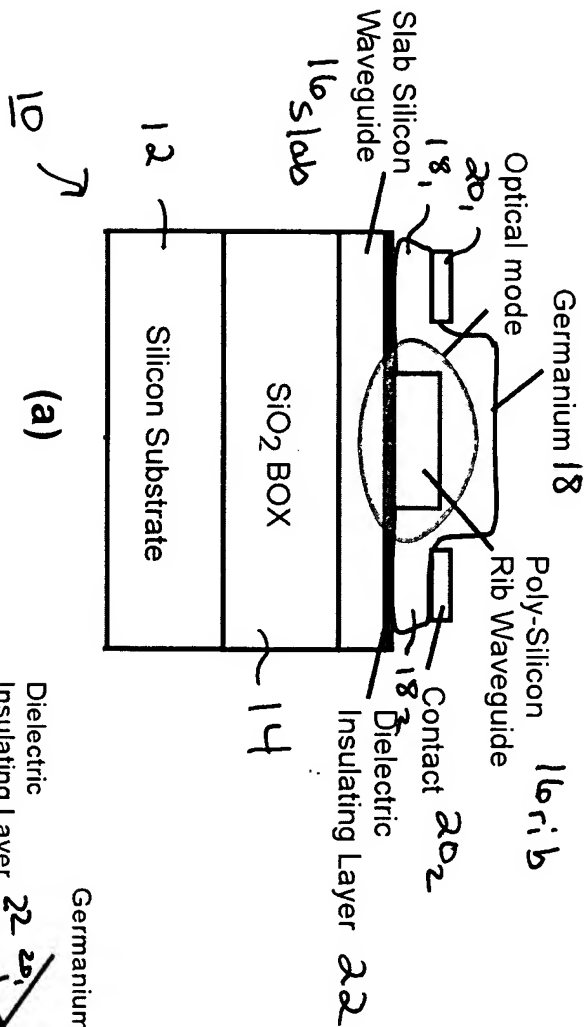
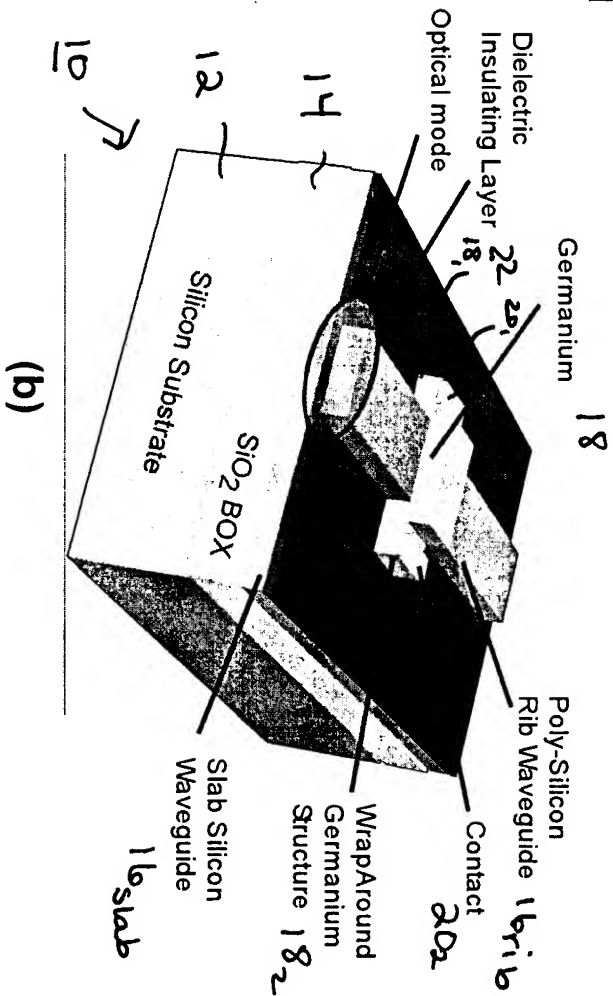


FIG. 11



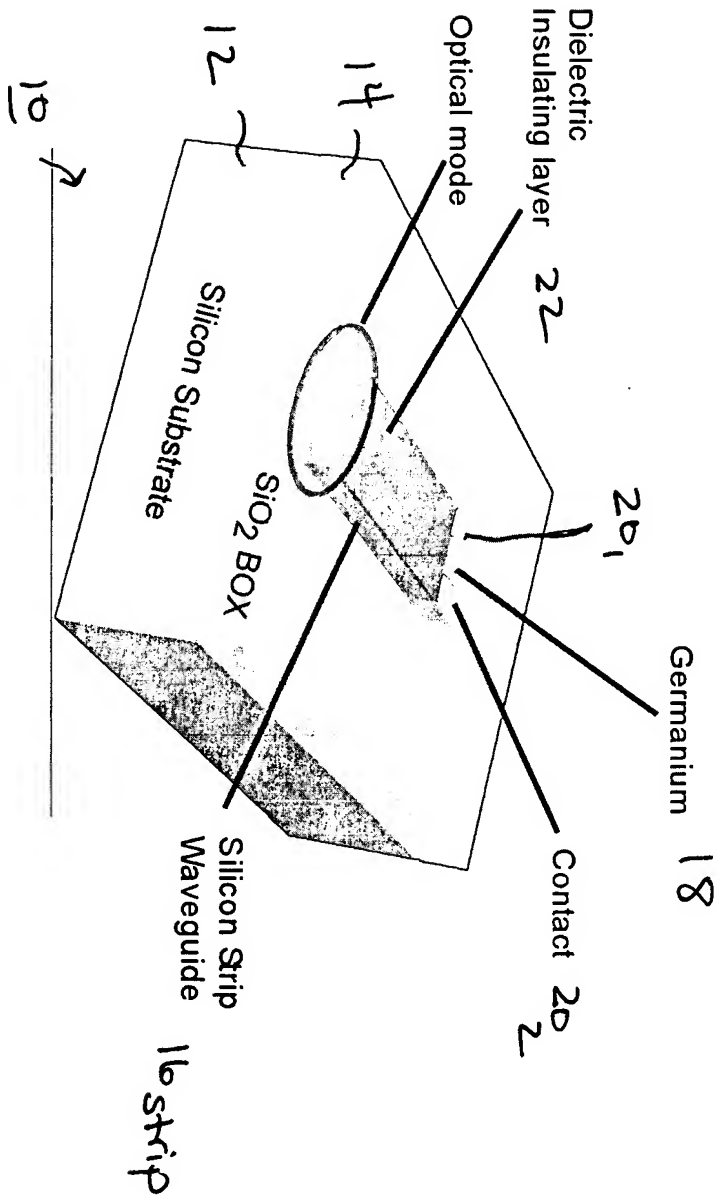


FIG. 12

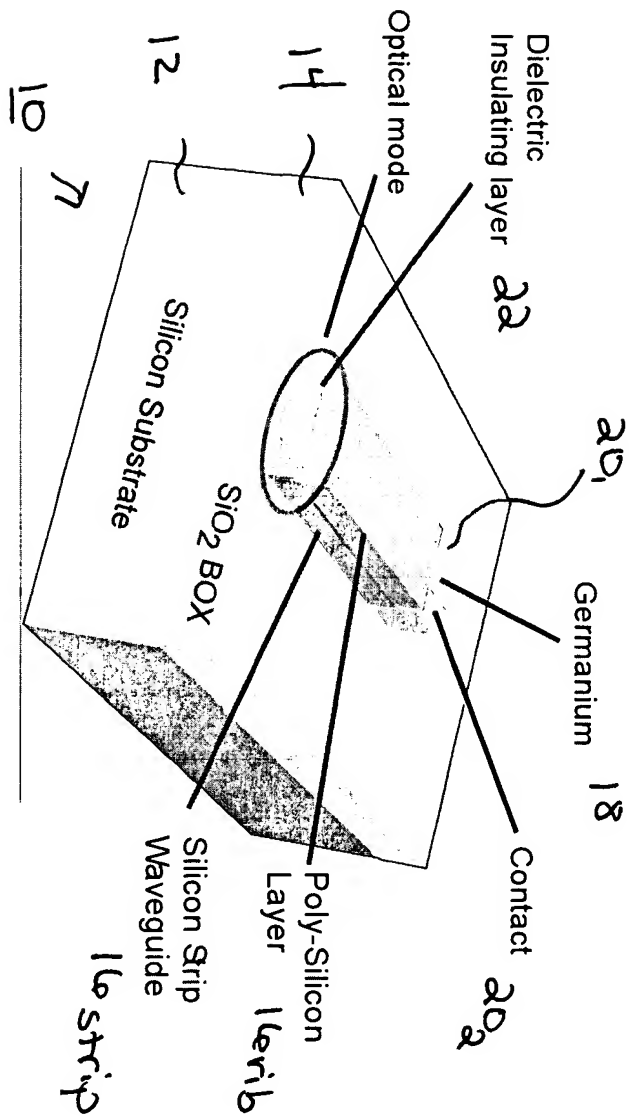


FIG. 13

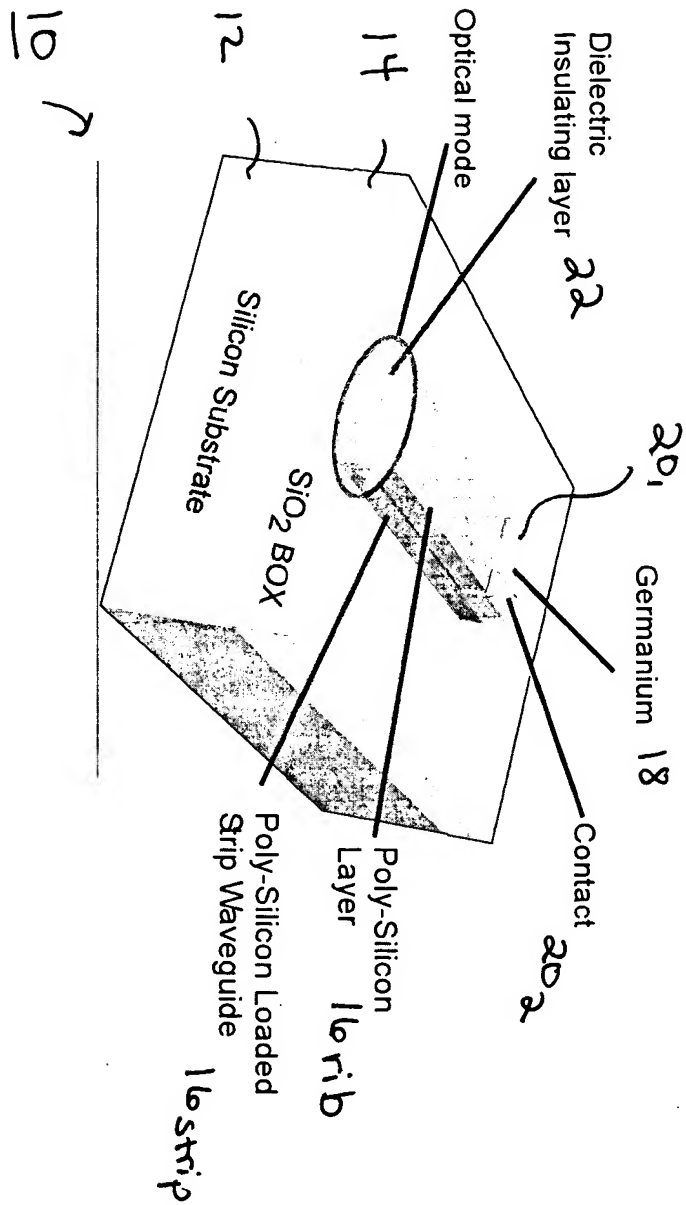


FIG. 14

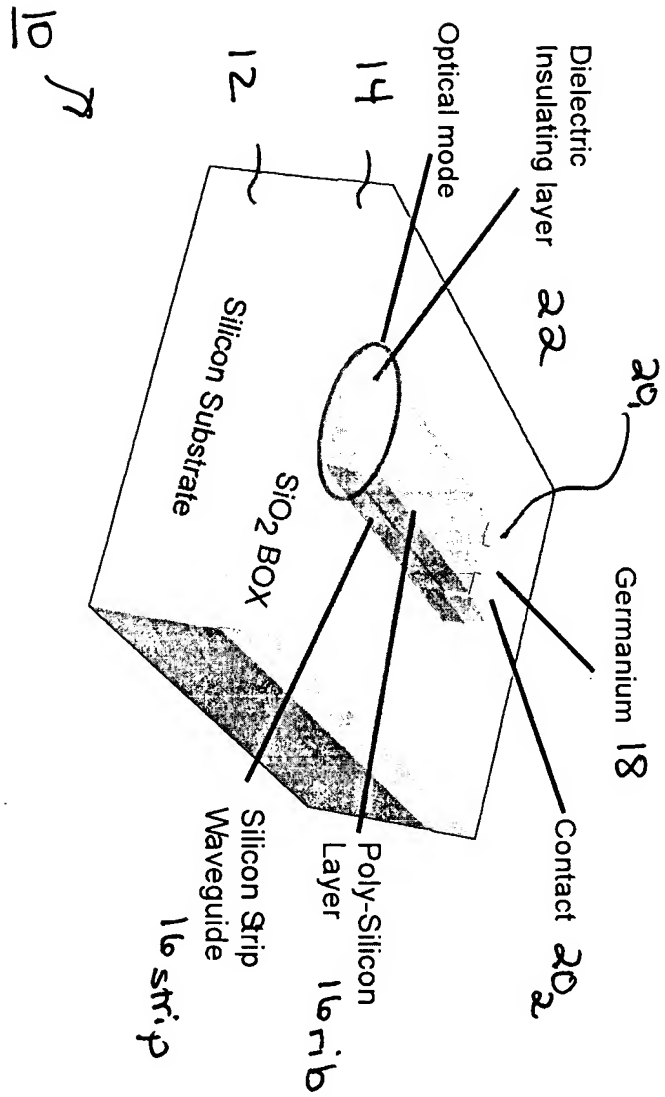
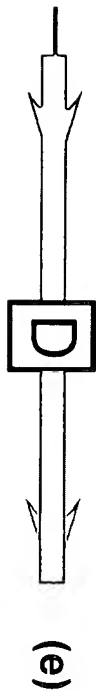
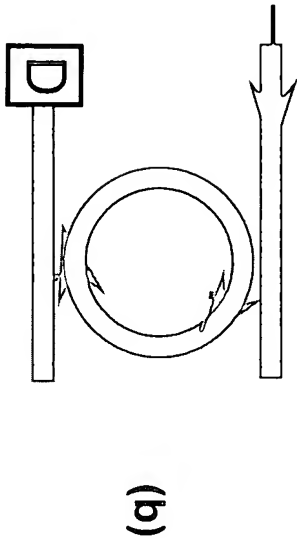


FIG. 15

In-line Detection

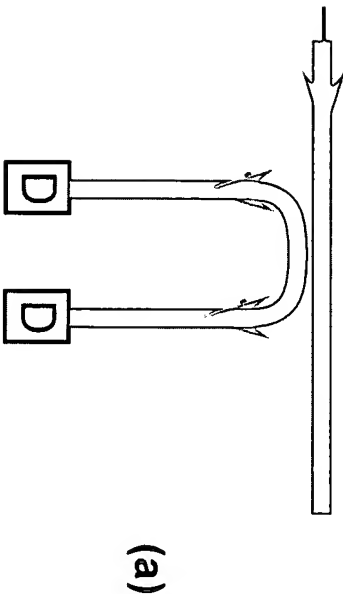


Ring Resonator based Tap



Tap for

Reflected/Transmitted Power



Coupled Waveguide based
Multi-Wavelength Tap

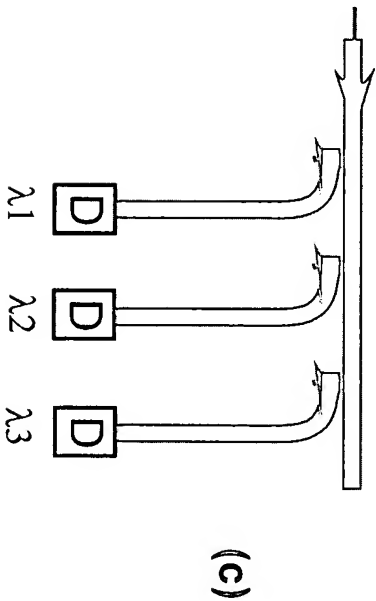
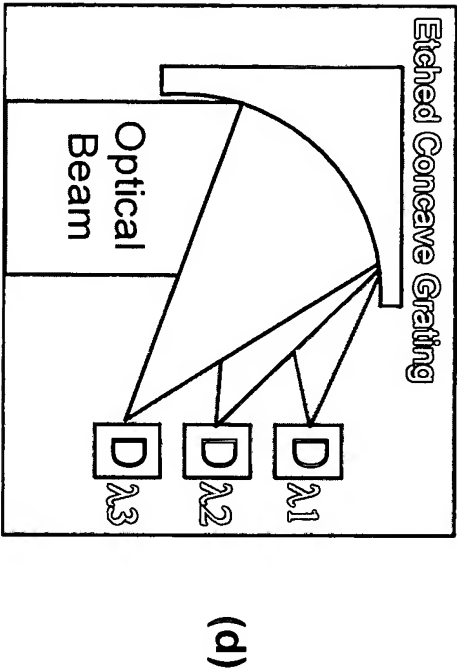


FIG. 16



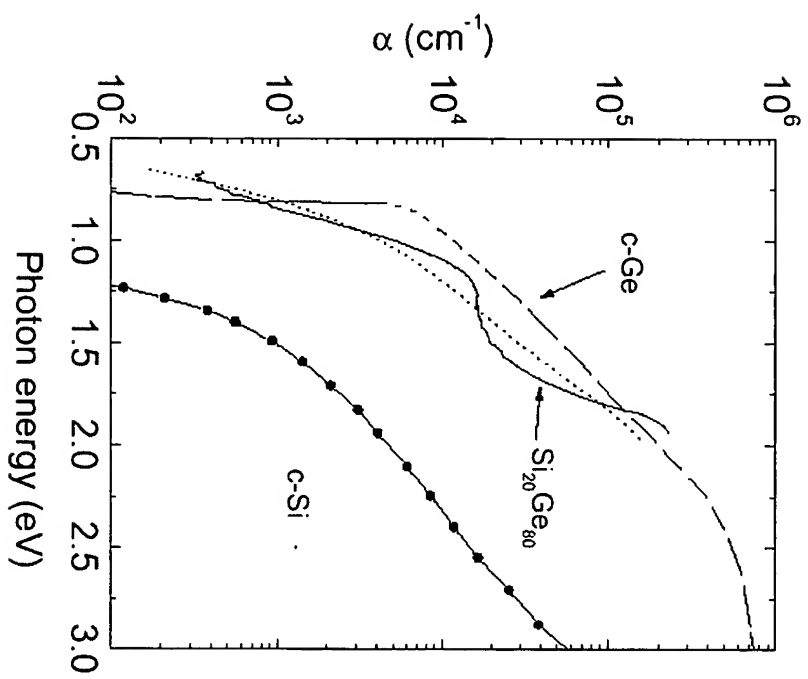


FIG. 17